

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image processing apparatus, comprising:

reconstructing means for dividing, in band units, print data that indicates contents of objects positioned in one page which is composed of a plurality of the bands and reconstructing print data in the band units,

reconstructing means for reconstructing print data for instructing contents of objects positioned in one page in band units that are obtained by dividing the page into a plurality of regions;

converting means for converting the data reconstructed by said reconstructing means into page description language data that is in a page description language form; and transmitting means for transmitting the page description language data, wherein the reconstructing means processes and distinguishes print data according to a type of the print data, and decides whether the band units to be reconstructed have common data.

2. (Previously Presented) The image processing apparatus according to claim 1, wherein said reconstructing means includes:

storage means for storing print data for one page; and a graphic library for generating data reconstructed in the band units by retrieving the contents stored in said storage means, wherein said converging means is a printer driver for converting data supplied in the band units from said graphic library into the page description language data.

3. (Original) The image processing apparatus according to claim 1, wherein said reconstructing means and said converting means include:

a printer driver; and
storage means, and said printer driver stores print data supplied from said graphics library in said storage means, and retrieves said storage means after print data for one page has been stored in said storage means so that data reconstructed in the band units is read from said storage means, and read data is converted into the PDL data.

4. (Original) The image processing apparatus according to claim 1, wherein said reconstructing means divides said objects across plural bands in band units to generate data reconstructed in the band units.
5. (Original) The image processing apparatus according to claim 4, wherein said reconstructing means divides bit map data at boundaries among the bands, when the objects across plural bands are divided for each band in a case where print data is bit map data.
6. (Original) The image processing apparatus according to claim 4, wherein said reconstructing means transmits text data for each of corresponding bands, when the objects across the plural bands are divided for each band in a case where print data is text data which instructs a character code.
7. (Original) The image processing apparatus according to claim 4, wherein said reconstructing means divides image data such that divided objects overlap one another, when the objects across the plural bands are divided for each band in a case where print data is image data.
8. (Original) The image processing apparatus according to claim 4, wherein said reconstructing means divides the objects into draw primitives, and handles sets of the draw primitives belonging to the bands as objects for each band so that the objects across the plural bands are divided for each band.
9. (Original) The image processing apparatus according to claim 4, wherein

said reconstructing means makes approximation to curves with a plurality of straight lines, when print data is graphics data indicating the curves so as to divide the curves across the plural bands for each band.

10. (Original) The image processing apparatus according to claim 1, wherein said reconstructing means includes:

detecting means for detecting processing performance of said image processing apparatus; and

determining means for determining whether or not print data is reconstructed, and wherein print data is transmitted to said converting means, when said determining means has determined that reconstruction is not performed.

11. (Original) The image processing apparatus according to claim 1, wherein said band is obtained by dividing a page in a main scanning direction and a sub-scanning direction.

13. (Canceled).

14. (Previously Presented) An image processing system, comprising:

an image processing apparatus including:

reconstructing means for dividing, in band units, print data that indicates contents of objects positioned in one page which is composed of a plurality of the bands and reconstructing print data in the band units,

converting means for converting the data reconstructed by said reconstructing means into page description language data that is in a page description language form, and

transmitting means for transmitting the page description language data,

wherein the reconstructing means processes and distinguishes print data according to a type of the print data, and decides whether the band units to be reconstructed have common data; and

an output apparatus including:

receiving means for receiving the page description language data, raster converting means for converting the page description language data received by said receiving means into raster data,

a buffer for storing, in the band units, the raster data converted by said raster converting means, and

a printing mechanism for printing the objects on a printing sheet in accordance with the raster data read from said buffer.

13. (Previously Presented) An image processing method for an image processing system including an image processing apparatus and an output apparatus, comprising:

dividing, in band units, print data that indicates contents of objects positioned in one page which is composed of a plurality of the bands;

reconstructing the print data in the band units and distinguishing according to a type of the print data, and deciding whether the band units to be reconstructed have common data;

converting reconstructed data into page description language data in a page description language form;

converting the page description language data into raster data;

storing, in the band units, the converted raster data; and

printing the objects on a printing sheet in accordance with the stored raster data.

(4) 16. (Currently Amended) An image processing apparatus, comprising:

reconstructing means for dividing, in band units, print data that indicates

contents of objects positioned in one page which is composed of a plurality of the bands and

reconstructing print data in the band units,

~~reconstructing means for reconstructing print data for instructing contents of~~

~~objects positioned in one page in band units that are obtained by dividing the page into a~~

~~plurality of regions;~~

converting means for converting the data reconstructed by said reconstructing means into page description language that is in a page description language form; and

transmitting means for transmitting the page description language data;

wherein the reconstructing means processes and distinguishes print data according to a type of print data and determines whether the objects are positioned across a plurality of the band units.